

80074

S/020/60/131/06/006/071

Multidimensional Problem of Moments

$$T(\vartheta) = \int \sum_{n=0}^{\infty} a_n e^{i(n, \vartheta)} d\sigma(\vartheta), \quad (n, \vartheta) = \sum_{j=1}^k a_j \vartheta_j,$$

where σ is a uniquely defined measure on the k -dimensional torus S^k .

Definition: The sequence $s_n, n = 0, 1, \dots (s_n > 0)$ is called sequence of the type K , if

$$(4) \quad \int \frac{\log S(r)}{r} d\sigma(\vartheta) \sim \sum_{n=0}^{\infty} \frac{s_n}{r^{n+1}} \quad \text{as } r \rightarrow \infty.$$

Theorem 7: Let $T_n, n = (n_1, \dots, n_k)$ be a k -fold sequence for which

a.) $\sum_{n=0}^N T_n \leq 0$, where $\sum_{n=0}^N$, $n = 0, 1, \dots, N$ is an arbitrary finite set of numbers b.) for every m the sequence

$$\sum_{n=0}^{\infty} \frac{T_n}{n!} = \sum_{n=0}^{\infty} \frac{1}{n!} \sum_{j=1}^k a_j \vartheta_j^n$$

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Multidimensional Problem of Moments

with the index n_j , $j = 1, \dots, k$, is a sequence of the type K. Then it holds the representation

$$(7) \quad T_n = \int_{R_k} \lambda_1^{n_1} \dots \lambda_k^{n_k} d\sigma(\lambda)$$

where the measure σ is uniquely defined.

A. N. Kolmogorov, Ye. Vul and Gel'fand are mentioned in the paper.

There are 10 references: 7 Soviet and 3 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: December 28, 1959, by S. L. Sobolev, Academician

SUBMITTED: December 25, 1959

Card 3/3

16.3500

80040
S/020/60/132/01/07/064

AUTHOR: Kostyuchenko, A.G.

TITLE: Evaluation of the Resolvents of Singular Elliptic Operators ¹⁶

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 32-35

TEXT: Let

$$(2) \quad L_0 = (-1)^{m+1} \sum_{k_1 + \dots + k_n = 2m} A^{k_1 \dots k_n}(x) \frac{\partial^{2m}}{\partial x_1^{k_1} \dots \partial x_n^{k_n}} + Q(x),$$

where $x = (x_1, \dots, x_n)$, $-\infty < x_k < \infty$, $k = 1, 2, \dots, n$; let $A^{k_1 \dots k_n}(x)$

be the matrix $\|a_{ij}^{k_1 \dots k_n}(x)\|$, $i, j = 1, 2, \dots, N$. Let the following con-

ditions be satisfied: a) For real s , $|s|^2 = \sum_{k=1}^n s_k^2 = 1$ and arbitrary

$x \in R_n$ the characteristic roots $\lambda_1(s, x)$ of the matrix

$$(-1)^{m+1} \sum_{k_1 + \dots + k_n = 2m} A^{k_1 \dots k_n}(x) (is_1)^{k_1} \dots (is_n)^{k_n}$$

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Evaluation of the Resolvents of Singular
Elliptic Operators

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satisfy the inequalities $\operatorname{Re} \lambda_i < -\delta$, where $\delta > 0$ and it does not depend on x, s ; b) The matrix $Q(x) = \|q_{ij}(x)\|$ is symmetrical; its characteristic roots $\beta_k(x)$ are so that $\beta_k(x) \leq -g(x)$, where $g(x) \geq c|x|^\alpha + c_1$. Besides let the elements of $A^{k_1 \dots k_n}(x)$ and $Q(x)$ have $2m$ continuous de-

rivatives, those of $A^{k_1 \dots k_n}$ be bounded in R_n while

$$(1) \quad |q_{ij}^{(k)}(x)| \leq c g^{\frac{2m+k}{2m}}(x), \quad i, j = 1, \dots, N.$$

Theorem 1 : Under the given assumptions there exists a number $\lambda_0 > 0$ so that the operator $(L_0 - \lambda_0 E)^{-1}$ is an integral operator the kernel $H(x, y)$ of which satisfies the estimation

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$$(3) \left| \frac{\partial^{k_1 \dots k_n} H(x, y)}{\partial x_1^{k_1} \dots \partial x_n^{k_n}} \right| \leq \frac{B_\epsilon e^{-c|x-y|}}{g^{\frac{2m-k-\epsilon}{2m}}(x)}, \quad \sum_{j=1}^n k_j = k, \quad k = 0, \dots, 2m-1$$

where $\epsilon > 0$; $|x-y| \geq 1$; $c > 0$; B_ϵ - constant. In the neighborhood of $x=y$, $H(x, y)$ has the singularity of the fundamental solution. Theorem 2:

Let the matrices $A^{k_1 \dots k_n}(x)$ be symmetrical, let a) and b) be satisfied; let $Q(x)$ satisfy (1). Let

$$B_1(x, \frac{\partial}{\partial x}) = \sum_{m_1 + \dots + m_n = 1} B^{m_1 \dots m_n}(x) \frac{\partial^{m_1}}{\partial x_1^{m_1}} \dots \frac{\partial^{m_n}}{\partial x_n^{m_n}};$$

for the elements $b_{ij,1}(x)$ of B_1 , for $\delta > 0$ let be valid

$$(4) |b_{ij,1}(x)| \leq c g^{\frac{2m-1}{2m} - \delta}(x), \quad i = 0, 1, \dots, 2m-1.$$

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Then the operator $\bar{L} = L_0 + \sum_{l=0}^{2m-1} B_l(x, \frac{\partial}{\partial x})$ has a complete system of
eigenfunctions and adjoined functions.

The author mentions M.V. Keldysh.

There are 5 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: December 28, 1959, by S.L. Sobolev, Academician

SUBMITTED: December 25, 1959

Card 4/4

16,3500

32560
S/550/61/010/000/002/004
D251/D301

AUTHORS: Kostyuchenko, A.G., and Eskin, G.I.
TITLE: Cauchy's problem for Sobolev-Gal'pern equations
SOURCE: Moskovskoye matematicheskoye obshchestvo. Trudy.
vol. 10, 1961, 273 - 284

TEXT: The authors state that Cauchy's problem for a general system of linear differential equations with constant coefficients which is not a Kovalevskaya-type system, i.e., is not soluble with respect to $\partial u / \partial t$ has the form

$$P(1 \frac{\partial}{\partial x}) \frac{\partial u}{\partial t} = P_1(1 \frac{\partial}{\partial x}) u, \quad (1)$$

$$u(x, 0) = u_0(x), \quad (2)$$

where $x = (x_1, \dots, x_n)$, $u = (u_1, \dots, u_m)$ and P and P_1 are m -order matrices. In the current work uniqueness and correctness classes are constructed for Cauchy's problem for the following cases:

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Cauchy's problem for Sobolev-

1) $\det P(\sigma) \neq 0$ for all real $\sigma = (\sigma_1, \dots, \sigma_n)$; 2) $\det P(\sigma)$ coincides with zero for some real σ , where $P(\sigma)$ is the matrix with polynomial coefficients, obtained from $P(\partial/\partial x)$ by replacing $\partial/\partial x$ by σ . In the case when $\det P(\sigma) \neq 0$, then there exists a region G , $\{s = \sigma + it; t \leq C(1 + |\sigma|)^p\}$, in which also $\det P(s) \neq 0$. Theorem 1. The solution of Cauchy's problem (1) (2) with the condition that $\det P(\sigma) \neq 0$ for real σ is unique in the class of functions

$f(x) \leq C e^{a|x|^{1+\epsilon}}$ for some $\epsilon > 0$ if $p < 0$ and to the class $f(x) \leq C e^{a|x|}$ if $p \geq 0$. A proof and discussion of this theorem follows: Theorem 2. For some $\epsilon > 0$ Cauchy's problem (1) (2) with the conditions that $\det P(\sigma) \neq 0$ and $\Lambda(\sigma) \leq 0$ is unique in the class of initial functions $\varphi_0(x)$ having an increase of power not greater than $1 - (n + 1)$ together with derivatives of order up to $n_1 + n$.

In the case $p_1 \geq 0$ Cauchy's problem is correct in the class of initial functions $\varphi_0(x)$ such that $|\varphi_0(x)| \leq e^{a|x|}$ when $|x| \leq$

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Cauchy's problem for Sobolev...

$\leq p \leq n + 1$ and $a < d$, and the solution $u(x, t)$ in the case $p_1 < 0$ has power increase not greater than 1 and in the case $p_1 \geq 0$, $|u(x, t)| \leq Ce^{a/x}$. Here $\Delta(\sigma) = \max \operatorname{Re} \lambda_j(\sigma) \leq C$ [Abstractor's note: Other symbols not explained]. Theorem 3: Cauchy's problem (1)-(2) with the condition that

$$\det P(\sigma) \neq 0, \quad \Delta(\sigma) \leq C_1/\sigma^h + C_2,$$

where $h < 1$, is correct in the class of infinitely differentiable initial functions $u_0(x)$ which satisfy the conditions

$$|u_0^{(q)}(x)| \leq C A_q^q q^\alpha e^{b/x} \frac{h}{h - \frac{q}{p}} \quad (q = 0, 1, 2, \dots)$$

where $1 < \alpha < 1/h$, and the solution

$$|u(x, t)| \leq Ce^{b/x} \frac{h}{h - \frac{1}{p}}$$

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Cauchy's problem for Sobolev...

The case when $\det P(\sigma)$ becomes zero for some real σ is then considered. In this case Cauchy's problem may not have a solution even for bounded initial functions. An example of this is discussed, and the following theorem is established: Theorem 4. Let the problem (1)-(2) fulfill the following conditions: 1) The real zeros of $\det P(\sigma)$ are distributed in a finite region of the real plane. 2) $\Lambda(\sigma) = \max_{1 \leq j \leq m} \operatorname{Re} \lambda_j(\sigma) \leq C$ and for sufficiently great σ there exists

a strip $|\operatorname{Im} \sigma| \leq C_1$ such that $\Lambda(\sigma + i\tau) \leq C_2$ in that strip. 3) If $\det P(\sigma_0) = 0$ then as $\xi \rightarrow \sigma_0$, $\Lambda(\xi) \rightarrow \infty$. Then Cauchy's problem is correct in the class of initial functions $u_0(x)$ satisfying the

following conditions: a) $|u_0^{(q)}(x)| \leq C_\epsilon e^{\epsilon|x|/\alpha}$, where $\epsilon > 0$ is arbitrary, $|q| \leq r$ and $\alpha < 1$. b) $u_0(x)$ has in the neighborhood of the zeros of $\det P(\sigma)$ the form $[\det P(\sigma)]^k \varphi_0(\sigma)$, where $\varphi_0(\sigma)$ is a functional of the type of the functions, and the solution $u(x, t)$

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S/550/61/010/000/002/004
D251/D301

Cauchy's problem for Sobolev-

satisfies the estimate $|u(x, t)| \leq C_\epsilon e^{\epsilon/x/\alpha}$ and $u(x, t)$ is a function of the type of the functions in the neighborhood of $P(\epsilon) = 0$. There are 7 references: 4 Soviet-bloc and 3 non Soviet-bloc. The references to the English-language publications read as follows: L. Hörmander, On the theory of general partial differential operators, Acta math. 94, 1955, 161 - 248, A. Seidenberg, A new decision method for elementary algebra, Ann. of Math. (2) 60, 1954, 7. L. Hörmander, On the division of distributions by polynomials, Ark. för Math. no. 6, 1958, 555 - 568.

SUBMITTED: June 12, 1960

Card 5/5

KOSTYUCHENKO A.G.
KOSTIUCENKO, A.G.; MITEAGHIN, B.S.

Positive-definite functionals on nuclear spaces. *Analele mat* 17 no.1:
3-40 Ja-Mr '63.

D 45809-65 EWT(d)/T LJP(c)

ACCESSION NR AM4043734

BOOK EXPLOITATION

S/ 30
B/1

Vilenkin, N. YA.; Gorin, YE. A.; Kostyuchenko, A. D.; Krasnosel'skiy, N. A.;
Krein, S. G.; Maslov, V. P.; Nityagin, A. S.; Petunin, YE. I.; Rutitskiy,
YA. B.; Sobolev, V. I.; Statsenko, V. YA.; Faddeyev, L. D.; Tsitlanidze, E. S.

Functional analysis (Funktsional'nyy analiz), Moscow, Izd-vo "Nauka", 1964,
424 p. biblio., index. Errata slip inserted. 17,500 copies printed. Series
note: Spravochnaya matematicheskaya biblioteka.

TOPIC TAGS: functional analysis, mathematics, operator equation, quantum
mechanics, Hilbert space, Banach space, linear differential equation

PURPOSE AND COVERAGE: This issue in a series of Handbooks of the Mathematical
Library contains much material grouped basically around the theory of
operators and operator equations. It presents the basic concepts and methods
of functional analysis, theory of operators in Hilbert space and in conical
space, the theory of nonlinear operator equations, the theory of standard rings
applied to equations in partial derivatives, to integral equations. A
separate chapter is devoted to the basic operator of quantum mechanics. Citing
of the theory of generalized functions takes up a large part of the book. The
book explains mathematical facts; theorems and formulas, as a rule, are given

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ACCESSION NR AM4043734

without proofs. Main attention is given to concepts without excessive detail. The book is intended for mathematicians, mechanical engineers, and physicists. It contains much of value for students and graduate students.

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Ch. III. Linear differential equations in Banach space -- 116

Ch. IV. Nonlinear operator equations -- 187

Ch. V. Operators in space with a cone -- 229

Ch. VI. Commutative standard rings -- 256

Ch. VII. Quantum mechanics operators -- 279

Ch. VIII. Generalized functions -- 323

Bibliography -- 414

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SUBMITTED: 06Feb64

SUB CODE: MA

NO REF SOV: 038

OTHER: 012

Card 2/2 001

L 8517-65 ENI(d) Pg-4 JIP(c)/ESD(dp)/RAEM(t)

ACCESSION NR: AP4045090

8/0020/64/158/001/0041/0044

AUTHOR: Kostyuchenko, A. G.

TITLE: Asymptotic distribution of the eigenvalues of elliptic operators

SOURCE: AN SSSR. Doklady*, v. 158, no. 1, 1964, 41-44

TOPIC TAGS: elliptic differential equation, operator equation, eigenvalue, asymptotic property

ABSTRACT: Asymptotic formulas are derived for arbitrary self-adjoint elliptic operators. These formulas are analogs of the formulas derived by Titchmarsh (Proc. London Math. Soc. v. 3, No. 10, 153, 1953) and others for the Schrodinger operator $-\Delta + q(x)$. In particular, it is shown that the elliptic operator

$$L = (-1)^m \sum_{|\alpha| \leq m} A^{k_\alpha}(\lambda) \frac{\partial^{k_\alpha}}{\partial x_1^{k_1} \dots \partial x_n^{k_n}} + L_1\left(x, \frac{\partial}{\partial x}\right) + q(x) =$$

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ACCESSION NR: AP4045090

$$= L_0 + L_1 + q(x)$$

has a discrete spectrum and the number of eigenvalues $N(\lambda)$ that are smaller than λ has an asymptotic expression in the form

$$N(\lambda) \sim \frac{1}{(2\pi)^n \Gamma(a/2n+1)} \int_{\Omega(x)} \Omega(x) (\lambda - q(x))^{a/2n} dx. \quad (1)$$

Several corollaries of this theorem and an indication of its proof are given. This report was presented by I. G. Petrovskiy. Orig. art. has: 6 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. V. M. Lomonosova (Moscow State University)

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: MA

NR REF SOV: 004

OTHER: 002

Card 2/2

L 37655-66 EWT(d) IJF(c)

ACC NR: AP6015602

SOURCE CODE: UR/0020/66/168/002/0276/0279

AUTHOR: Kostyuchenko, A. G. 41

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet) B

TITLE: The asymptotic behavior of the spectral function of a singular differential operator of order $2m$

SOURCE: AN SSSR. Doklady, v. 168, no. 2, 1966, 276-279

TOPIC TAGS: differential equation, mathematic operator, Fourier transform, wave equation, parabolic differential equation, boundary value problem, mathematic matrix, Green function, Cauchy problem

ABSTRACT: The formally symmetric differential equation

$$l(y) = (-1)^m y^{(2m)} + p_{2m-2}(x) y^{(2m-2)} + \dots + p_0(x) y$$

is examined. It is defined over the entire axis or semiaxis. L_0 is a minimal operator generated by $l(y)$ and has identical indices of error. L is its arbitrary self-adjoint extension. It is shown that in each finite domain (x, ξ) , when $\lambda \rightarrow \infty$ for the spectral function $\theta(x, \xi, \lambda)$ of any semi-bounded self-adjoint extension, the equation

$$\theta(x, \xi, \lambda) = \theta_0(x, \xi, \lambda) + o(1),$$

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UDC: 517.947.35

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ACC NR: AP6015602

where

$$\theta_0(x, \xi, \lambda) = \frac{1}{\pi} \frac{\sin \lambda^{1/2m}(x-\xi)}{x-\xi}.$$

is a spectral function of the operator $(-1)^m y^{(2m)}$. If operator L_0 is defined on the semiaxis $0 \leq x < \infty$, then the same equation applies. The first theorem is proved by examining the equation for the resolvent kernel $K(x, \xi, \lambda)$ of operator $\tilde{L}$:

$$\tilde{K}(x, \xi, \lambda) = K_0(x, \xi, \lambda) + \int_{-\infty}^{\infty} K_0(x, s, \lambda) \tilde{P}\left(s, \frac{d}{ds}\right) \tilde{K}(s, \xi, \lambda) ds,$$

where $K_0(x, \xi, \lambda)$ is the resolvent kernel of the operator $(-1)^m y^{(2m)}$ and $\tilde{P}(x, d/dx)$ is an operator which contains all minor coefficients of operator $\tilde{L}$. The theorems can be applied to the calculation of traces for singular operators of a high order. This paper was presented by Academician I. G. Petrovskiy on 17 January 1966. Orig. art. has: 9 formulas.

SUB CODE: 12/ SUBM DATE: 11Jan66/ ORIG REF: 003/ OTH REF: 005

Card 2/2

KOSTYUCHENOK, B.M.; MATUSEVICH, M.Ya.

Effect of modern methods of general anesthesia on the course and outcome of lung resections. Eksp. khir. i anest. 7 no.6: 83-87 N-D '62. (MIRA 17:10)

1. Iz kliniki gosptal'noy khirurgii No.1 (nashal'nik - prof. I.S. Kolesnikov) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova.

Kostyuchenko, E. V.

112-1-352 D

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 1, p. 59 (USSR)

AUTHOR: Kostyuchenko, E. V.

TITLE: Evaluation of the Formation in the Flow of Gravel and Pebble Bars.
(During the construction work of hydroelectric power stations.)
(Otsenka formirovaniya v potoke graviyno-galechnykh otsypey) (Pri
proizvodstve rabot po vozvedeniyu GES))

ABSTRACT; Bibliographic entry on the author's dissertation for the degree of
Candidate of Technical Sciences, presented to the Moscow Power
Engineering Institute (Mosk. energ. in-t) Moscow, 1955.

ASSOCIATION: Moscow Power Engineering Institute (Mosk. energ. in-t, Moscow)

Card 1/1

Kostyuchenko, E. V.
APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310013-

Dispersal of particles of non-bound soils falling into a flow
of liquid. Trudy Inst. vod. khoz. i energ. AN Kir. SSR no.4:85-99
'57. (MIRA 10:12)
(Hydraulics)

KOSTYUCHENKO, E.V.

Simplified method for calculating the transformation of the
forebay of low-head dams. Izv.AN Kir.SSR.Ser.est.i tekhnauk 2
no.4:133-145 '60. (MIRA 14:8)
(Hydraulics)

ARTAMONOV, K.F.; KOSTYUCHENKO, E.V.; BAYBEKOV, N.A.

Results of investigating the formation of the forebay and the
afterbay of the western branch intake of the Great Chu Canal.
Trudy Inst. vod. khoz. i energ. AN Kir. SSR no.6:133-154 '59.
(MIRA 15:5)

(Great Chu Canal--Hydraulic structures)

KABAKOV, M.M., kand. tekhn. nauk; MAZAROV, M.I., kand. tekhn. nauk;
ZHAROVA, K.A., nauchnyy sotr.; KAPLINSKIY, M.I., kand. tekhn.
nauk; ARTAMONOV, K.F., kand. tekhn.nauk; RAMAZAN, M.S., kand.
tekhn. nauk; KOSTYUCHENKO, E.V., kand. tekhn. nauk; TESLENKO,
V.G., nauchnyy sotr.; TERESHCHENKO, V.S., nauch.sotr.; TALMAZA, V.F.;
LEVITUS, B.L., red. izd-va; ANOKHINA, M.G., tekhn. nauk.

[Field investigation of irrigation systems]Proizvodstvennye
issledovaniia na orositel'nykh sistemakh. Frunze, Izd-vo AN
Kirgizskoi SSR, 1961. 302 p. (MIRA 15:9)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut energetiki
i vodnogo khozyaystva.

(Kirghizistan--Irrigation)

KOSTYUCHENKO, E.V.

Some aspects of the design of sedimentation tanks with periodic
washing out for the intake of water from mountain rivers. Izv.
AN Kir. SSR. Ser. est. i tekhn. nauk 4 no.5:27-36 '62,
(MIRA 16:4)
(Intakes(Hydraulic engineering))

KOSTYUCHENKO, E.V.; KROSHKIN, A.N.

Brief information about some natural fill in the mountain rivers
Of Kirghizistan. Izv.AN Kir. SSR. Ser. est. i tekhn. nauk 5 no.3:
119-128 '63. (MIRA 16:11)

ARTAMONOV, K.F. ; KOSTYUCHENKO, E.V.; KROSHKIN, A.N.; LOPATIN, A.S.

Experiment with filtering rock-fill dams in Kirghizistan. Izv.
AN Kir. SSR. Ser. est. i tekhn. nauk 5 no.3:79-101 '63.

GREBENNIKOV, L.S.; KOSTYUCHENKO, E.V.

Filtration of rock-fill dams on the Shamsi and Alamedin Rivers.

Izv.AN Kir. SSR. Ser. est. 1 tekhn. nauk 5 no.3:103-114 '63.

(MIRA 16:11)

KOSTYUCHENKO, G.

AUTHOR: Kostyuchenko, G., Chief of Aeroclub (Kuybyshev)

85-58-6-9/43

TITLE: Model Airplanes in the Air (V vozdukhe aviamodeli)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 6, p 3 (USSR)

ABSTRACT: The author states that city contests in free and cord-driven model plane flights were held in Kuybyshev throughout the past winter in anticipation of the All-Union Spartacus Games.

ASSOCIATION: Kuybyshevskiy aeroklub (Kuybyshev Aeroclub)

1. Airplanes--Model building

Card 1/1

ACC NR: AP6032538

SOURCE CODE: UR/0413/66/000/017/0149/0149

INVENTOR: Brant, A. A. Kostyuchenko, K. A.; Lebedev, G. P.; Zharov, V. M.

ORG: none

TITLE: A method of fastening fillers to plastic paneling of two- and three-layered marine gear and equipment structures. Class 65, No. 185716

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 149

TOPIC TAGS: ^{mechanical} fastener, ^{shipbuilding} ~~plastic paneling~~ engineering, filler, plastic product

ABSTRACT: This Author Certificate introduces a method of fastening fillers to plastic paneling of two- and three-layered marine gear and equipment structures by means of plastic plugs inserted between the panels. For greater holding power and more esthetic appearance of the assembly, the seats for the fasteners are formed by making cylindrical channels between the panel layers with diameters larger than the opening in the panel. An adjuster crew is inserted into the channel and the space around it is filled with a solidifier which forms a threaded sleeve for the fastener when the adjuster screw is screwed out. Orig. art. has: 1 figure.

SUB CODE: 13/1/ SUBM DATE: 21Jun65/

Card 1/1

UDC: 629.12.011.28. 002.29:629.12.01

KOSTYUCHENKO, K.A.

Furniture drawers made from glued parts. Der.prom. 10 no.12:20
D '61. (MIRA 14 12)

1. TSentral'nyy nauchno-issledovatel'skiy institut fanery i
mebeli.

(Cabinetwork)

KOSTYUCHENKO, K.A.; CHURAK, V.L.; GENINA, B.A.

Furniture manufactured from bent and glued subassemblies. Der.prom.
11 no.2:22-23 F '62. (MIRA 15:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Furniture)

BELYKH, K.D.; kand. tekhn. nauk (Dneprodzerzhinsk); TLEUCABYLOV, Zh.Kh. (Rudnyy); KOSTYUCHENKO, K.I. (Rudnyy); SOLETSOV, A.S. (Rudnyy); MEL'NICHENKO, A.I.; GLEYZEROV, A.V., inzh.-mekhanik; ZDOROVENKO, LP., mostovoy master

Gleaning tracks with jet snow plows. Put' i put. khoz. 9 no.1:34-36
'65 (MIRA 18:2)

1. Dnepropetrovskiy metallurgicheskiy kombinat (for Belykh).
2. Nachal'nik konstruktorskogo otdela Sokolovsko-Sarbayskogo gornoobogatitel'nogo kombinata (for Treugabylova).
3. Starshiy inzh. Sokolovsko-Sarbayskogo gornoobogatitel'nogo kombinata (for Solentsov).
4. Nachal'nik Kiyevskoy distantсии puti (for Mel'nichenko).
5. Kiyevskaya distantсиya puti (for Gleyzerov).
6. Nachal'nik otdela mekhanizatsii sluzhby puti Pribaltiyskoy dorogi, Riga (for Tershovskiy).
7. Darnitskaya distantсиya puti Yugo-Zapadnoy dorogi (for Zdorovenk).

MEKLER, L.S., gornyy inzh.; SHURYGIN, A.I., gornyy inzh.; KOSTYUCHENKO,
L.M., gornyy inzh.; NAGAYEVA, N.G., gornyy tekhnik

Efficient types of supports in the Degtyarka copper mine.
Gor. zhur. no.8:33-36 Ag '64. (MIRA 17:10)

1. Degtyarskiy mednyy rudnik.

RESEARCH, N. A.

RESEARCH, N. A. - "Fertility of the Samkenskoy Layer of the Buzhanskaya Oblect."
Min of Higher Education, North Ossetian Agricultural Inst. Leningrad, 1955
(Dissertations for Degree of Candidate of Agricultural Sciences)

SO: Knizhnaya Intelekt No. 26, June 1955, Moscow

SATSKIY, V.; KOSTYUCHENKO, M.

Rolling of round sections on a continuous mill. Metallurg
8 no.2:25-27 F '63. (MIRA 16:2)

1. Zamestitel' nachal'nika sortoprokatnogo tsekha
Krivorozhskogo metallurgicheskogo zavoda (for Satskiy).
2. Starshiy master Krivorozhskogo metallurgicheskogo
zavoda (for Kostyuchenko).
(Rolling (Metalwork))

SATSKIY, V.A.; KOSTYUCHENKO, M.I.

Rolling angles on continuous small-shape mills. Metallurg 8 no.3:
24-26 Mr '63. (MIRA 16:3)

1. Zamestitel' nachal'nika sortoprokatnogo tsekha Krivorozhskogo metallurgicheskogo zavoda (for Satskiy). 2. Starshiy master sortoprokatnogo tsekha Krivorozhskogo metallurgicheskogo zavoda (for Kostyuchenko).

(Rolling (Metalwork))

GETMANETS, V.V., inzh.; KOSTYUCHENKO, M.I., inzh.; SATSKIY, V.A., inzh.;
SINITSA, I.I., inzh.

New method of selecting a rolling technology on continuous shape
mills. Stal' 23 no.10:921-923 O '63. (MIRA 16:11)

1. Krivorozhskiy metallurgicheskiy zavod.

KOSTYUCHENKO, N.A.

86-12-4/29

AUTHOR: Kostyuchenko N.A., Sen Lt

TITLE: The Ground Controller's Estimation by Eye in Vectoring the Fighters to the Aerial Targets (Shturmanskiy glazomer pri navedenii istrebiteley na vozdushnyye tseli)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 12, pp 17-24, (USSR)

ABSTRACT: At the present time, the combat situation in the air changes very rapidly. Therefore, during interception operations the ground controllers at the command posts should perform their computations as accurately and as quickly as possible and the fighters should be vectored into a tactically favorable position for attack within the shortest time possible. The slightest delay in changing the preselected course may disrupt the whole interception operation. The author stresses that despite the very high level of modern technology the visual estimation (by eye) of the air situation displayed on the radar plan position indicator at the command post has not yet lost its importance in interception operations controlled from the ground. The initial data for determining the speed taken from the plan position indicator are the

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86-12-4/29

The Ground Controller's Estimation by Eye in Vectoring the Fighters to the Aerial Targets

"APPROVED FOR RELEASE: 06/14/2000

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distance (range) and the time. The distance can be determined by the radar fixes and the time by the number of radar antenna revolutions. The author cites here some practical examples in order to show how the methods are used. Many controllers have acquired the habit of using the azimuth lines in determining the course of targets either on the plotting board or on the plan position indicator. When approaching, the range between the target and the fighter is determined by the controller, as a rule, by eye. To shift from the plotting board to the vectoring with the help of the plan position indicator, the controllers are trained to estimate the range by eye on the maps of various scale, after they had been instructed how to determine the size of the sectors in centimeters. In addition, the controllers in the author's unit use the already known sectors and compare them with the unknown ones. To do this, they made a preliminary study of the ranges and the bearings of the basic check points in the area of flights.

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86-12-4/29

The Ground Controller's Estimation by Eye in Vectoring the Fighters
to the Aerial Targets

A knowledge of the dimensions of the squares in the map grid makes the vectoring much easier. After acquiring some experience in estimating the ranges by eye, the controller can proceed with the mental calculation of the target speed. Various methods are used here, but the author describes only those used by his unit. Gaps, however, are possible, while plotting the target and the fighters. It occurs frequently after a turn is made by an airplane. In the author's unit, all the controllers plot the route of the target and of the fighters under no-wind condition. In this, timing is of special importance, thus all the data plotted on the board should correspond to a definite chronology of time. Under the conditions of enemy radar interferences (countermeasures), the position of a friendly fighter may be quickly estimated by eye with the help of navigational aids, such as two radio direction finders, true course, relative bearing of ground radio stations, radar interrogators, etc. In this case, the degree of error depends upon the controller's skill and the accuracy of data received. For this reason,

Card 3/4

KOSTYUCHENKO, N. A.

Volunteer women's crews in fire fighting. Pozh.delo 6:27 Mr
'60. (MIRA 13:6)

1. Druzhinnik koksokhimicheskogo zavoda, Khar'kov.
(Kharkov--Chemical industry--Fires and fire prevention)

SMIRNOV, G.M., kand.tekhn.nauk; IVANOV, A.A., kand.tekhn.nauk; MANOV, V.K.,
inzh.; MISHCHENKO, V.P., inzh.; KOSTYUCHENKO, N.T., inzh.; FURSA, I.G.,
inzh.

Measuring external surface temperatures of a large-capacity converter
and converter ladle. Stal' 25 no.5:406 My '65.

(MIRA 18:6)

IVANOV, A. A.; OBODOVSKIY, B. A.; SMIRNOV, G. M.; BOCHAROV, V. A.; KOSTYUCHENKO,
N. I.; LYUBOV, V. A.; MANOV, V. M.; MEDYNSKIY, A. F.; MISHCHENKO, V. P.;
FURSA, I. G.

Investigating 350- and 480-ton welded steel-pouring ladles.
Izv. vys. ucheb. zav.; chern. met. 8 no. 4:220-223 '65. (MIRA 18:4)

1. Zhdanovskiy metallurgicheskiy institut.

SMIRNOV, G.M. [Smirnov, H.M.], kand.tekhn.nauk; KOSTYUCHENKO, N.T.
[Kostiuchenko, M.T.]

Tension of warp glass fibers on the looms. Leh.prom.
no.1:57-59 Ja-Mr '64. (MIRA 19:1)

SMIRNOV, G.M.; KOSTYUCHENKO, N.T.

Experimental determining of the stresses in the work of shuttle
protector mechanisms on metallic cloth looms. Izv. vys. ucheb.
zav.; tekhn. teks. prom. no.6:68-69 '65. (MIRA 19:1)

1. Zhdanovskiy metallurgicheskiy institut. Submitted May 25, 1965.

SMIRNOV G.M.; KOSTYUCHENKO N.I.

Experimental determining of stresses in the plating mechanism parts
of looms. Izv. vys. ucheb. zav. tekhn. tekhn. prom. no.1:88-91 '65.
(MIRA 18:5)

I. Zhdanovskiy metallurgicheskiy institut.

KOSTYUCHENKO, N.T., inzh.; MISHCHENKO, V.P., inzh.; SERBNOV, G.M., kand.
tekhn. nauk

Measuring temperatures of the outside surfaces of an operating
machine with electronic thermometers. Ger. zhur. no.9:73 S '65.
(MLRA 18:9)

KOSTYUCHENKO, N.T.

IVANUSHKIN, P.F.; SOKOLOV, L.N.; ANDRYUSHCHENKO, P.P.; KIRITSEV, A.D.;
KOSTYUCHENKO, N.T.

Ratio of the cross-sectional area of forged metal to that of the
original blank following alternate deformation in different directions.
Kuz.-shtam. proizv. 1 no.9:9-10 S '59. (MIRA 12:12)
(Forging)

SMIRNOV, G.M.; IVANOV, A.A.; BOCHAROV, V.A.; KOSTYUCHENKO, N.T.;
MEDYNSKIY, A.F.; MISHCHENKO, V.P.; TANCHIK, I.B.M.

Welded ladle for pouring steel. Met. i gornorud. prom. no. 2;
65 Mr-Ap '64. (MIRA 17:9)

OLESHKO, V.P., inzh.; KOSTYUCHENKO, N.E.

Mechanical unloading of salt from railroad cars. Masl.-zhir.
prom. 26 no.1:20-23 Ja '60. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut shirov..
(Leningrad--soap industry--Equipment and supplies)

OLESHKO, V.P., inzh.; KOSTYUCHENKO, N.Ye.; KOROVIN, P.A.

Mechanical unloader designed by Korovin. Masl.-zhir.prom. 26
no.7:40-42 J1 60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for
Oleshko, Kostyuchenko). 2. Shebekinskiy kombinat sinteticheskikh
zhirnykh kislot i moyushchikh sredstv (for Korovin).
(Oil industries--Equipment and supplies)
(Loading and unloading)

KOSTYUCHENKO, P.

Achievements of Tyumen' transport workers. Avt. transp. 35 no.5:38
My '57. (MIRA 10:6)
(Tyumen' Province--Transportation, Automotive)

KOSIYUSHENKO, R. A.

Petrels - Black Sea Region

Small stormy petrel on the Black Sea. Priroda 41 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November ² 195^X3. Unclassified.

KOSTYUCHENKO, R.A.

~~Changes in the stock of Azov Sardine Clupeonella delicatula d.~~
(Nordmann) following regulation of river runoff. Trudy VNIRO 31
no.2:188-195 '55. (MLBA 9:8)

1. Azovsko-Chernomorskiy nauchno-issledovatel'skiy institut rybnogo
khozyaystva i okeanografii.
(Azov, Sea of--Sardines)

KOSTYUCHENKO, R.A.; NAZARENKO, V.V.

Rapana in the Sea of Azov. Priroda 49 no. 12:107-109 D '60.
(MIRA 13:12)

1. Azovochnomorskaya rybopromyslovaya razvedka, Kerch'.
(Azov, Sea of--Gastropoda)

KUROCHKIN, K.T.; BAUM, B.A.; KOSTYUCHENKO, R.P.

Correlation between the actual and equilibrium concentrations
of hydrogen in steel during the open-hearth process. Izv. vys.
ucheb. zav.; Chern. met. no.2:25-31 '60. (MIRA 15:5)

1. Ural'skiy politekhnicheskii institut.
(Steel-Hydrogen content)
(Vapor-liquid equilibrium)

L 60980-65 EPP(c)/EMP(d)/EMP(e)/EMP(k)/EMP(h)/EMP(b)/EMA(d)/EMP(r)/EMP(t) Pr-1/
Pr-1 IJP(c) JD/30

ACCESSION NR: AP6018176

UR/0149/65/000/007/0043/0046

669.15-194.669.27.669.788.641.8

AUTHOR: Kurochkin, K. T.; Baum, B. A.; Kostyuchenko, R. P.

TITLE: Solubility of hydrogen in iron-tungsten alloys

SOURCE: IVUZ. Chernaya metallurgiya, no. 7, 1965, 43-45

TOPIC TAGS: hydrogen solubility, tungsten alloy, iron alloy, tungsten steel

ABSTRACT: The possible influence of tungsten in steel alloys on the solubility of gases is not yet known. Consequently, the author studied the influence of W on the solubility of hydrogen in iron. The iron tested contained 0.028% C, 0.18% Si, 0.006% Mn, 0.026% S, 0.19% Cu, 0.05% Cr, and 0.18% Ni. The basic result of the experiment is shown in Fig. 1 of the Enclosure. The article also describes briefly the device for the determination of hydrogen solubility and presents results concerning the influence of temperature (between 1550 and 1650°C) on the hydrogen solubility in iron-tungsten alloys. For the alloy with 1.13% W, this effect can be expressed by the formula:

$$\log S = - \frac{3570}{T} + 3.32$$

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L 60980-65

ACCESSION NR: AP6018176

Orig. art. has: 2 formulas and 3 figures.

ASSOCIATION: Ural'skiy politekhnicheskii institut (Urals Polytechnic Institute)

SUBMITTED: 12Jan63

ENCL: 01

SUB CODE: MM

NO REF SOV: 003

OTHER: 000

Card 3/3

L-60980-05

ACCESSION NR: AP6018175

ENCL. 01

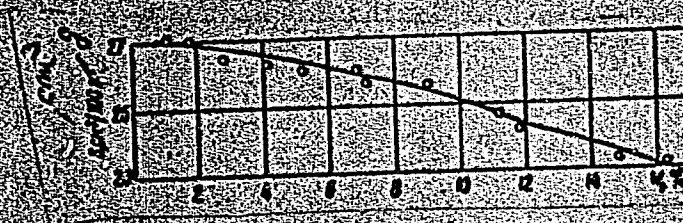


Fig. 1. Hydrogen solubility in iron-tungsten alloys as a function of tungsten content at 1550C.

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3/3

GUSHCHIN, V.N., veterinarnyy vrach; MATVEYEV, A.N., veterinarnyy vrach;
KOSTYUCHENKO, S.P., veterinarnyy vrach

Effective method of treating mastitis in cows. Veterinariia 41 no.3:72
Mr '64. (MIRA 18:1)

1. Podsobnoye khozyaystvo "Kraskovo", Moskovskoy oblasti.

KOSTYUCHENKO U. A.

AUTHORS: Besednyy, V.A., and Kostyuchenko, V.A. 125-58-5-11/13

TITLE: Automatic Welding Under Flux of "L62" and "LO62-1" Brass.
(Avtomaticheskaya svarka pod flyusom latuni marok L62 i LO62-1)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5, pp 86-88 (USSR)

ABSTRACT: A new, automated technology used at the Sumy Plant imeni Frunze is described. It has replaced the old method of gas welding using the filler material "LK62-0.5" which was unproductive and gave very poor appearance to welds. The welding tractor "TS-17M" was modified for the purpose (by replacing the wire container, with an open bobbin for copper wire and the common electrode holder with one for welding aluminum by aluminum wire). Copper wire was used as electrode wire. The best fluxes proved "MATI-53" and "ANF-5". "MATI-53" consists of 77% "OSTs-45" flux, 7.6% boric acid, and 15.4% soda ash; its production technology was previously described [Ref. 1]. The optimum way of automatically welding brass (with very stable welding process and good mechanical properties of the weld joints) is welding under flux "ANF-5" by copper wire alloyed by iron and manganese. There are 5 tables and 2 Soviet references.

Card 1/2

125-58-5-11/13

Automatic Welding Under Flux of "L62" and "LO62-1" Brass

ASSOCIATION: Sumsko / zavod imeni Frunze (Sumy Plant imeni Frunze)

SUBMITTED: January 9, 1957

AVAILABLE: Library of Congress

Card 2/2

MAKARA, A.M.; MOSENDZ, N.A.; SIDORITS, N.M.; KOSTYUCHENKO, V.A.

Welding centrifugal machinery for the manufacture of pipes with
a thickness of 32mm. Avtomatizatsiya i upravleniye mashinami (1989) 1:1-12. (11 RA 51,00)

KOSTYUCHENKO, V.A.

Nutrition of sprats and utilization of the food supply of the Sea of
Azov by them. Trudy VNIRO 31:378-391 '55. (MIRA 11:6)

1. Azovo-Chernomorskiy nauchnyy institut rybnogo khozyaystva.
(Azov, Sea of--Sprats) (Fishes--Food)

KOSTYUCHENKO, V.A.

~~_____~~
Biology and commercial status of sturgeons in the Sea of Azov before regulation of river runoff. Trudy VNIRO 31 no.2:174-187 '55.

(MLRA 9:8)

1. Azovsko-Chernomorskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii.

(Azov, Sea of--Sturgeons)

VATKIN, Ya.L., doktor tekhn. nauk; BERDYANSKIY, M.G., inzh.; BRODSKIY, I.I., inzh.; DOL'NIK, T.I., inzh.; KOSTYUCHENKO, Y.I., inzh.; TOLDAYEV, A.S. inzh.

Regulator of the longitudinal wall thickness variation in pipe. Stal' 24 no.9:832-833 S '64. (MIRA 17:10)

1. Dnepropetrovskiy metallurgicheskoy institut i Tsentral'naya laboratoriya avtomatizatsii i mekhanizatsii Pridneprovskogo soveta narodnogo khozyaystva.

KARPOVA, Ye.V., prof.; KOSTYUCHENKO, V.I., aspirant.

Experience in reducing the endemic goiter rate in some
populated places in Yaroslavl Province. Gig. sanit. 28
no.2:70-74 '63 (MIRA 17:2)

1. Iz gospiatal'noy khirurgicheskoy kliniki Yaroslavskogo
meditsinskogo instituta.

KOSTYUCHENKO, V. M.

606 Moy opyt skorosmogo vozhdeniya tyazhelovesnykh poyezdov. (12 lektsii starsh. mashinisra depo stantii im. T. Sheuchenko...) Zapisoli i obrabor. A. Koloniyets i DR.). Odessa. 1954 13s s graf. 21sm. (seksiya zh - d. transporta Odes. otd. niya O-va po rasprostraneniyu. polir. i nauch. znaniy. Dor. tekhniki i sluzhba. lokomotivnogo khozyaystva odes. - Kishinevskoy zh. D.). 700 ekz. B. rs. - (54-546597)p 621.137.2 sr.

SO: Knizhnaya Letopis', Vol 1, 1955

KOSTYUCHENKO, V.N. (Moskva); SIMONOV, N.N. (Moskva)

Experimental study of a shock wave in air following an underwater
explosion in a shallow reservoir. PMTF no.1:135-137 My-Je '60.
(MIRA 14:8)

(Underwater explosions) (Shock waves)

ZACNEGIN, V.L. (Moskva); KOZACHENKO, L.S. (Moskva); KOSTYUCHENKO, V.N.
(Moskva)

Experimental investigation of the development of a gas bubble and
crown in underwater explosions. PMTF no.2:120-124 JI-Ag 60.

(MIRA 14:6)

(Underwater explosions)

OVSIYENKO, D.Ye.; KOSTYUCHENKO, V.P.

Effect of oxides on the crystallization of iron and of some of its alloys. *Sobr. nauch. rab. Inst. metallofiz. AN URSR* no.10:130-143 '59. (MIRA 13:9)

(Iron—Metallography)

(Crystallization)

55185

S/601/61/000/013/017/017
D207/D302

18.1235

AUTHORS: Ovsienko, D. Ye. and Kostynchenko, V. P.

TITLE: The supercooling of chromium

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabot, no. 13, 1961. Voprosy fiziki metallov i metallovedeniya, 167-169

TEXT: The authors studied supercooling of chromium in an atmosphere of purified hydrogen. The technique was the same as in the authors' earlier work on iron. Small molten drops, 1 - 2 mm in diameter, of chromium containing 0.003% O, 0.0002% H, 0.006% N, 0.08% Fe and 0.05% Si were placed on a BeO plate. The temperature was measured with a W-Mo-Al thermocouple ЦНННЧМ-1 (TsNIICHM-1) in contact with chromium. Chromium was found to solidify at temperatures of 80 - 120°C below the melting-point; some drops crystallized 200°C below the melting-point. Scatter of these temperature intervals was due to impurities: traces of nitrogen and

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KOSTYUCHENKO, V. P.

"Irrigated Gray Desert Soil Sierozem of the Tashkent Oasis." Cand Agr Sci, Soil Inst, Acad Sci USSR, 17 Feb 1954. Dissertation (Vechernyaya Moskva Moscow, 8 Feb 54)

SO: SUN 186 19 Aug 1954

LAVROV, A. P., AND KOSTYUCHENKO, V. P.

Genesis of Clayey Semibushy Mounds in the Near Balkhansk Region

The region of wide-spread semibushy clayey mounds or hillocks (locally called "tummek") in the near Balkhash region, western Turkmenia, is coordinated geologically with the delta portion of the drying Obay-Chay River, and with the regions of inundations and stagnating waters. The connection of the morphology of mounds with the exposure of slopes relatives to wind direction and the aeolic character of the structure of individual horizons of a profile section indicate the principal role of wind in the transport and deposition of clayey material. The presence of erosional trenches and silt interstratifications testify to the influence of intermittent water currents also on the formation of mounds. The mounds are ancient formations and presently are being leveled and degraded. (RZhGeol, No. 5, 1955)
Iz. AN Turkm. SSR, No. 2, 1954, 17-25.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

Kostyuchenko, V.P.
LAVROV, A.P.; KOSTYUCHENKO, V.P.

~~XXXXXXXXXXXXXXXXXXXX~~
Distribution and origin of small depressions. Izv.AN Turk.
SSR no.2:64-69 '57. (MLRA 10:5)

1. Turkmenskiy nauchno-issledovatel'skiy institut zemledeliya.
(Turkmenistan--Physical geography)

KOSTYUCHENKO, V.P.

~~-----~~
Irrigated Sierozems of the Tashkent Oasis. Trudy Pochv. inst. 52:
249-302 '57. (MIRA 10:8)
(Tashkent Province--Sierozem soils)

KOSTYUCHENKO, V.P.

Results of a soil survey for the eastern part of the Transunguz
Kara-Kum based on visual observations from the air. Izv. AN Turk.
SSR no.2:19-25 '59. (MIRA 12:6)

1. Turkmenskiy nauchno-issledovatel'skiy institut zemledeliya.
(Kara-Kum--Soils)

OVSIIENKO, D.Ye.; KOSTYUCHENKO, V.P.

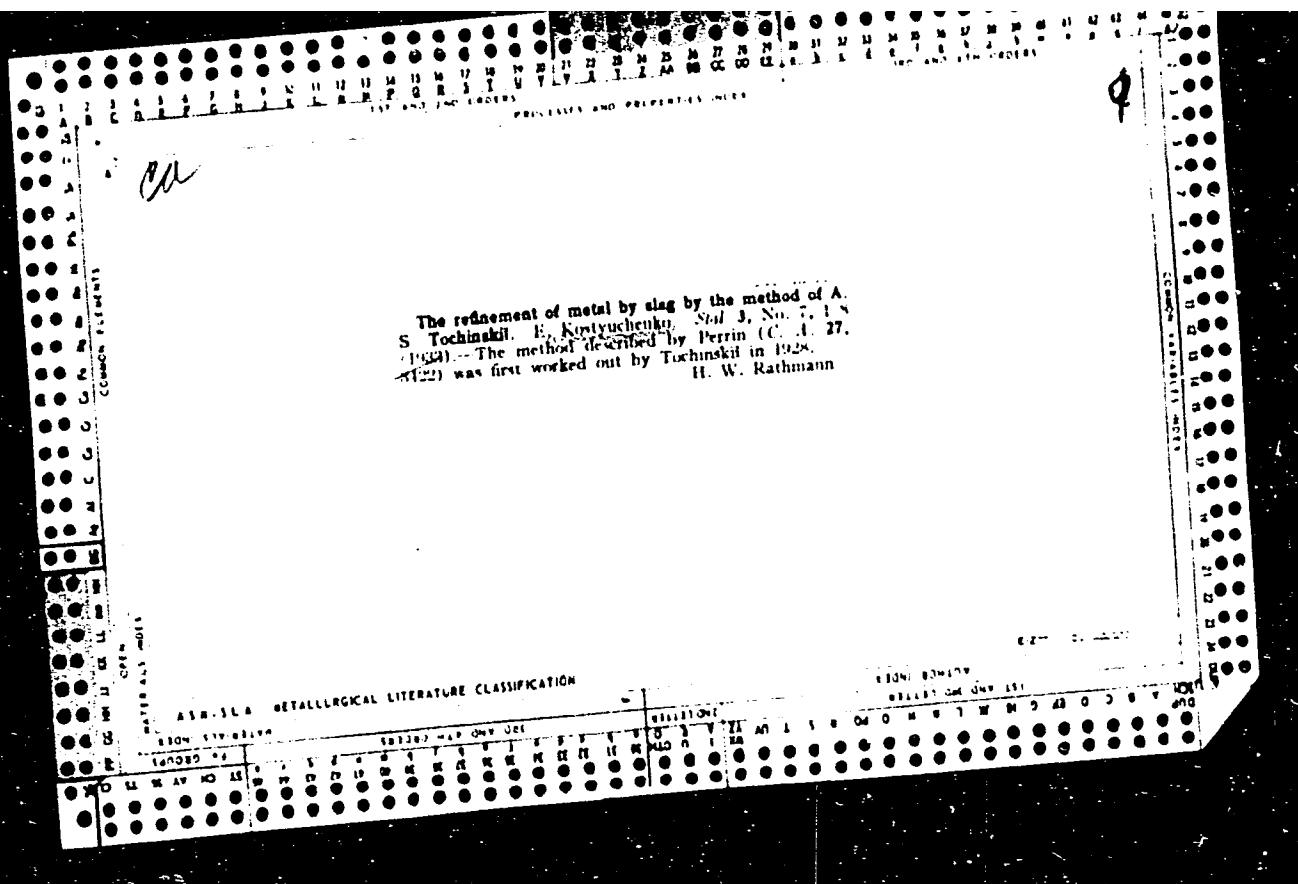
Supercooling of chromium. Sbor. nauch. rab. Inst. metallofiz.
AN URSR no.13:167-169 '61. (MIRA 14:12)
(Chromium) (Supercooling)

RABOCHEV, I.S.; LAVROV, A.P.; PALETSKAYA, L.N.; TRAPEZNIKOV, F.F.;
KOSTYUCHENKO, V.P.; NOSOV, A.K.; SEMERGEY, K.N.

Grigori' Il'ich Dolenko, 1886-1864; an obituary. Izv. AN Turk.SSR.
Ser.biol. nauk no.1:99-100 '65. (MIRA 18:5)

KOSTYUCHENKO, V.P.

At the Scientific Council for the Study of the Theoretical
Bases of Soil Science. Pochvovedenie no. 7:112-116 J1 '65
(MIRA 19:1)



KOSTIUCHENKO, E. B.

Kostiuchenko, E. B. Method of metal enrichment of slag on a physical and colloid chemical base Metod inzh. A. S. Tochinskogo, Khar'kov, Gos nauchno-tekhni-cheskoe izd-vo Ukrainy, 1935.

185 p.

A method of steel melting. S. T. Zaitov and R. H. Kostyuchenko. *Sotsialist. Rekonstruktsiya Nauka* 1936, No. 2, 132. — The theoretical method of A. A. Kurnetsov has been worked out and put into practice. It consists in leaving in the Thomas converter some of the metal that has been blown and making the next charge of cast iron. Then the process is carried on as usual with CaO introduced during the blowing. The output of the converter increases 15-20% and the S content of the product is lower. R. V. Shvartsberg

H. V. Shvartsberg

ASAC METALLURGICAL LITERATURE CLASSIFICATION

1940-1941

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7

Further Comments on Slag Control During the Open-Hearth Melting Process. E. Kostyuchenko. (Stal, 1937, No. 12, pp. 6-7) (In Russian). The author briefly criticizes some of the conclusions arrived at by L. Vladimirov in his study of the effect of the slag on the output capacity of the open-hearth furnace (*see preceding abstract*). Vladimirov, it is pointed out, tends to exaggerate the importance of the thickness of the layer of slag as a controlling factor of the heat-absorptive capacity of the furnace charge, while overlooking the part played by variations in the actual amount of heat supplied.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

PHASE I BOOK EXPLOITATION

SOV/5428

Kostyuchenko, Yevgeniy Borisovich

Usloviya sverkhskorostnogo obesfosforivaniya metalla shlakom (Conditions for the Ultrahigh-Speed Dephosphorization of Metals by Slag) Khar'kov, Izd-vo Khar'kovskogo univ., 1960. 107 p. 5,000 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya UkrSSR. Khar'kovskiy inzhenerno-ekonomicheskii institut.

Resp. Ed.: K. A. Shtets, Docent; Ed.: I. L. Bazilyanskaya; Tech. Ed.: A. S. Trofimenko.

PURPOSE: This book is intended for promoters of rapid metallurgical processes, innovators, engineers, scientific research workers, and students.

COVERAGE: The book is the third in a series devoted to the study of ultrahigh-speed steelmaking processes. Problems in physical chemistry and the kinetics of ultrahigh-speed steelmaking processes are discussed. Theoretical data on the ultrahigh-speed dephosphorization of metal were verified on the basis of

Card-1/3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310013-8

the ion theory of slags. The purpose of the report is to show that it is possible to take advantage of ultrahigh-speed processes in modern steelmaking practices. Advanced steelmaking methods and the experience gained in applying them were discussed at the All-Union Conference of Steelmakers, held at Stalino in 1960. The author believes that the present publication of the results of his work will contribute to the improvement of steel-manufacturing processes and will help to introduce the method developed by A. S. Tochinskiy. There are 84 references, mostly Soviet.

TABLE OF CONTENTS:

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I. Chemistry of the Ultrahigh-Speed Dephosphorization of Metal by Slag	5
1. Quantity of slag and the procedure for preparing it for dephosphorization of metal	7
2. Temperature of metal and slag prior to ultrahigh-speed reaction	18
3. Calculated oxygen content in metal after dephosphorization by slag of a selected composition	20

Card-2/3

S/194/62/000/006/012/232
D222/D309

AUTHOR: Kostyuchenko, Ye.B.

TITLE: A possible mathematical model of steel melting technology

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-1-116 s (Tr. Kharkovsk. inzh.-ekon. in-ta, 1961, 11, 43-48)

TEXT: It is remarked that the mathematical model of the process, constructed according to the rating data on melting in furnaces of a certain tonnage, is valid only for such an organization of manufacture as the one existing at the instant when the ratings are established. It is indicated that the mathematical model of steel melting technology is of importance not only for ultra-rapid processes, but that it makes it possible to separate out from general empirical relationships the influence of the organization of the industry on the duration of the processes in relatively slow furnaces. The mathematical model of steel melting technology based on the additivity of slag properties and on the theory of similarity, Card 1/2

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taking into account the foaming process, leads to more complicated expressions than the empirical formulae arising from the processing of melting data according to the rules of variational statistics. This complexity is, however, compensated by the fact that it becomes possible to consider, in a theoretically established way, the interaction of variables in the chemistry and kinetics of the process without the need to reexamine the mathematical model after every accidental or intentional change in the conditions of production. 6 references. [Abstracter's note: Complete translation.]

YUSHCHENKO, Ye.L. [Iushchenko, K.L.]; KOSTYUCHENKO, Ye.L. [Kostiuchenko, O.I.]

Algorithm for converting the recording of the bracket form of
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58-59 N-D '53. (MLRA 6:11)
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Use of hypothermia. Exper.khir. 1 no.3:3-10 My-Je '56 (MIRA 11:10)

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AMN SSSR (rukovoditel' deyatvitel'nyy chlen AMN SSSR prof. S.S.
Girgolav)

(LUNGS, surg.

controlled hypothermia, gas exchange & gases in)

(BODY TEMPERATURE

hypothermia, controlled in lung surgery, gas exchange &
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(BODY TEMPERATURE,
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Submitted August 10, 1963.

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